

IN THE SPECIFICATION:

Please amend the paragraphs of the specification beginning at page 5, line 16 and ending at page 8, line 20 as follows:

The 1st invention of the present invention (~~corresponding to claim 1~~) is a voltage controlled oscillator for controlling the oscillation frequency of an output signal depending on an input voltage, being characterized to receive a modulated voltage and output an FM signal having a band including a fundamental oscillation frequency and plural higher-order harmonic components of said fundamental oscillation frequency.

The 2nd invention of the present invention (~~corresponding to claim 2~~) is a voltage controlled oscillator in accordance with said 1st invention, wherein a frequency band including only the predetermined higher-order harmonic component is filtered at the output stage.

The 3rd invention of the present invention (~~corresponding to claim 3~~) is an FM signal optical transmitter comprising a signal processor for outputting an FM signal having a band including a fundamental oscillation frequency and plural higher-order harmonic components of said fundamental oscillation frequency, a band-pass filter for taking out only the predetermined-order harmonic signal component from said FM signal output from said signal processor, a frequency converter for shifting the taken-out harmonic signal component to the lower frequency side or the higher frequency side, and an electric/optic converter for converting the output signal of said frequency converter into an optical signal.

The 4th invention of the present invention (~~corresponding to claim 4~~) is an FM signal optical transmitter comprising a signal processor for outputting an FM signal having a band including a fundamental oscillation frequency and plural higher-order harmonic components of said fundamental oscillation frequency, a band-pass filter for taking out only the predetermined-

order harmonic signal component from said FM signal output from said signal processor, a frequency multiplier that directly multiplies the taken-out harmonic signal component or shifts said harmonic signal component to the lower frequency side or the higher frequency side and then multiplies the shifted signal, and an electric/optic converter that directly converts the frequency-multiplied signal into an optical signal or shifts said frequency-multiplied signal to the lower frequency side or the higher frequency side and then converts the shifted signal into an optical signal, wherein the modulation degree of said frequency-multiplied signal is raised to a predetermined modulation degree at the time of multiplication.

The 5th invention of the present invention (~~corresponding to claim 5~~) is an FM signal optical transmitter in accordance with said 3rd or 4th inventions, wherein said signal processor for outputting said FM signal is a voltage controlled oscillator in accordance with said 1st or 2nd inventions, and said modulated voltage is formed of plural subcarrier-multiplexed signals.

The 6th invention of the present invention (~~corresponding to claim 6~~) is an FM signal optical transmitter in accordance with said 3rd invention, wherein a predetermined harmonic carrier wave component is extracted from some harmonic components at the output of said signal processor, and the extracted harmonic carrier wave component is used as a reference frequency source required when frequency conversion is carried by said frequency converter.

The 7th invention of the present invention (~~corresponding to claim 7~~) is an FM signal optical transmitter in accordance with said 4th invention, wherein said frequency shifting is carried out by a frequency converter, a predetermined harmonic carrier wave component is extracted from some harmonic components at the output of said signal processor, and the extracted harmonic carrier wave component is used as a reference frequency source required when frequency conversion is carried by said frequency converter.

The 8th invention of the present invention (~~corresponding to claim 8~~) is an FM signal optical receiver comprising an optic/electric converter that receives an optical signal transmitted from said FM signal optical transmitter in accordance with any one of said 3rd to 7th inventions and converts said optical signal into an electric signal, and an FM demodulator for demodulating an FM signal converted into said electric signal.

The 9th invention of the present invention (~~corresponding to claim 9~~) is an FM signal optical transmission system comprising said FM signal optical transmitter in accordance with any one of said 3rd to 7th inventions, an optic/electric converter that receives an optical signal transmitted from said FM signal optical transmitter and converts said optical signal into an electric signal, and an FM demodulator for demodulating an FM signal converted into said electric signal.